



#3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Richards et al.

Appl. No. 09/875,290

Filed: June 7, 2001

For: **Apparatus, System and Method
for One-of-Many Positions
Modulation in an Impulse Radio
Communications System**

Confirmation No. 4657

Art Unit: 2681

Examiner: To be assigned

Atty. Docket: 1659.0860001

Letter to PTO Draftsman: Submission of Formal Drawings

Commissioner for Patents
Washington, D.C. 20231

Sir:

Submitted herewith are 30 sheets of formal drawings with Figures 1A, 1B, 2A, 2B, 3, 4, 5A-5H, 6, 7, 8A-8C, 9, 10, 11A, 11B, 12, 13A, 13B, 14-16, 17A, 17B, 18-22, 23A-23D, 24, 25A and 25B, corresponding to the informal drawings submitted with the above-captioned application. Identification of the drawings is provided in accordance with 37 C.F.R. § 1.84(c). Acknowledgment of the receipt, approval, and entry of these formal drawings into this application is respectfully requested.

Respectfully submitted,


STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Donald J. Featherstone
Attorney for Applicant
Registration No. 33,876


Date: 10/9/01.

1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934
(202) 371-2600

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

 <h1 style="text-align: center;">FEE TRANSMITTAL</h1> <h2 style="text-align: center;">for FY 2002</h2> <p style="text-align: center;">Patent fees are subject to annual revision.</p>		Complete if Known	
		Application Number	09/875,290
		Filing Date	June 7, 2001
		First Named Inventor	James L. Richards
		Examiner Name	To be assigned
		Group Art Unit	2681
TOTAL AMOUNT OF PAYMENT		(\$747.00)	
Attorney Docket No.		1659.0860001	

METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)																																																																																																																																																																																																																																																																																																																																																																																																																														
1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to: <table border="1" style="width: 100%;"> <tr> <td>Deposit Account Number</td> <td>19-0036</td> </tr> <tr> <td>Deposit Account Name</td> <td>Sterne, Kessler, Goldstein & Fox P.L.L.C.</td> </tr> </table> <input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17 <input checked="" type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27		Deposit Account Number	19-0036	Deposit Account Name	Sterne, Kessler, Goldstein & Fox P.L.L.C.	3. ADDITIONAL FEES <table border="1"> <thead> <tr> <th>Large</th> <th>Entity</th> <th>Small</th> <th>Entity</th> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee paid</th> </tr> </thead> <tbody> <tr> <td>105</td> <td>130</td> <td>205</td> <td>65</td> <td></td> <td></td> <td></td> <td></td> <td>Surcharge - late filing fee or oath</td> <td>65.00</td> </tr> <tr> <td>127</td> <td>50</td> <td>227</td> <td>25</td> <td></td> <td></td> <td></td> <td></td> <td>Surcharge - late provisional filing fee or cover sheet</td> <td></td> </tr> <tr> <td>139</td> <td>130</td> <td>139</td> <td>130</td> <td></td> <td></td> <td></td> <td></td> <td>Non-English specification</td> <td></td> </tr> <tr> <td>147</td> <td>2,520</td> <td>147</td> <td>2,520</td> <td></td> <td></td> <td></td> <td></td> <td>For filing a request for ex parte reexamination</td> <td></td> </tr> <tr> <td>112</td> <td>920*</td> <td>112</td> <td>920*</td> <td></td> <td></td> <td></td> <td></td> <td>Requesting publication of SIR prior to Examiner action</td> <td></td> </tr> <tr> <td>113</td> <td>1,840*</td> <td>113</td> <td>1,840*</td> <td></td> <td></td> <td></td> <td></td> <td>Requesting publication of SIR after Examiner action</td> <td></td> </tr> <tr> <td>115</td> <td>110</td> <td>215</td> <td>55</td> <td></td> <td></td> <td></td> <td></td> <td>Extension for reply within first month</td> <td></td> </tr> <tr> <td>116</td> <td>400</td> <td>216</td> <td>200</td> <td></td> <td></td> <td></td> <td></td> <td>Extension for reply within second month</td> <td></td> </tr> <tr> <td>117</td> <td>920</td> <td>217</td> <td>460</td> <td></td> <td></td> <td></td> <td></td> <td>Extension for reply within third month</td> <td></td> </tr> <tr> <td>118</td> <td>1,440</td> <td>218</td> <td>720</td> <td></td> <td></td> <td></td> <td></td> <td>Extension for reply within fourth month</td> <td></td> </tr> <tr> <td>128</td> <td>1,960</td> <td>228</td> <td>980</td> <td></td> <td></td> <td></td> <td></td> <td>Extension for reply within fifth month</td> <td></td> </tr> <tr> <td>119</td> <td>320</td> <td>219</td> <td>160</td> <td></td> <td></td> <td></td> <td></td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>120</td> <td>320</td> <td>220</td> <td>160</td> <td></td> <td></td> <td></td> <td></td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>121</td> <td>280</td> <td>221</td> <td>140</td> <td></td> <td></td> <td></td> <td></td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>138</td> <td>1,510</td> <td>138</td> <td>1,510</td> <td></td> <td></td> <td></td> <td></td> <td>Petition to institute a public use proceeding</td> <td></td> </tr> <tr> <td>140</td> <td>110</td> <td>240</td> <td>55</td> <td></td> <td></td> <td></td> <td></td> <td>Petition to revive - unavoidable</td> <td></td> </tr> <tr> <td>141</td> <td>1,280</td> <td>241</td> <td>640</td> <td></td> <td></td> <td></td> <td></td> <td>Petition to revive - unintentional</td> <td></td> </tr> <tr> <td>142</td> <td>1,280</td> <td>242</td> <td>640</td> <td></td> <td></td> <td></td> <td></td> <td>Utility issue fee (or reissue)</td> <td></td> </tr> <tr> <td>143</td> <td>460</td> <td>243</td> <td>230</td> <td></td> <td></td> <td></td> <td></td> <td>Design issue fee</td> <td></td> </tr> <tr> <td>144</td> <td>620</td> <td>244</td> <td>310</td> <td></td> <td></td> <td></td> <td></td> <td>Plant issue fee</td> <td></td> </tr> <tr> <td>122</td> <td>130</td> <td>122</td> <td>130</td> <td></td> <td></td> <td></td> <td></td> <td>Petitions to the Commissioner</td> <td></td> </tr> <tr> <td>123</td> <td>130</td> <td>123</td> <td>130</td> <td></td> <td></td> <td></td> <td></td> <td>Petitions related to provisional applications</td> <td></td> </tr> <tr> <td>126</td> <td>180</td> <td>126</td> <td>180</td> <td></td> <td></td> <td></td> <td></td> <td>Submission of Information Disclosure Stmt</td> <td></td> </tr> <tr> <td>581</td> <td>40</td> <td>481</td> <td>40</td> <td></td> <td></td> <td></td> <td></td> <td>Recording each patent assignment per property (times number of properties)</td> <td></td> </tr> <tr> <td>146</td> <td>740</td> <td>246</td> <td>370</td> <td></td> <td></td> <td></td> <td></td> <td>Filing a submission after final rejection (37 CFR 1.129(a))</td> <td></td> </tr> <tr> <td>149</td> <td>740</td> <td>249</td> <td>370</td> <td></td> <td></td> <td></td> <td></td> <td>For each additional invention to be examined (37 CFR 1.129(b))</td> <td></td> </tr> <tr> <td>179</td> <td>740</td> <td>279</td> <td>370</td> <td></td> <td></td> <td></td> <td></td> <td>Request for Continued Examination (RCE)</td> <td></td> </tr> <tr> <td>169</td> <td>900</td> <td>169</td> <td>900</td> <td></td> <td></td> <td></td> <td></td> <td>Request for expedited examination of a design application</td> <td></td> </tr> <tr> <td colspan="2"></td> <td colspan="2">Other fee (specify):</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td colspan="2"></td> <td colspan="2">Other fee (specify):</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td colspan="2"></td> <td colspan="2">*Reduced by Basic Filing Fee Paid</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td colspan="2"> 1. BASIC FILING FEE <table border="1"> <thead> <tr> <th>Large</th> <th>Entity</th> <th>Small</th> <th>Entity</th> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>101</td> <td>740</td> <td>201</td> <td>370</td> <td></td> <td></td> <td></td> <td></td> <td>Utility filing fee</td> <td>370.00</td> </tr> <tr> <td>106</td> <td>330</td> <td>206</td> <td>165</td> <td></td> <td></td> <td></td> <td></td> <td>Design filing fee</td> <td></td> </tr> <tr> <td>107</td> <td>510</td> <td>207</td> <td>255</td> <td></td> <td></td> <td></td> <td></td> <td>Plant filing fee</td> <td></td> </tr> <tr> <td>108</td> <td>740</td> <td>208</td> <td>370</td> <td></td> <td></td> <td></td> <td></td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>114</td> <td>180</td> <td>214</td> <td>80</td> <td></td> <td></td> <td></td> <td></td> <td>Provisional filing fee</td> <td></td> </tr> <tr> <td colspan="9">SUBTOTAL (1) (\$)</td> <td>370.00</td> </tr> </tbody> </table> </td> <td colspan="2"> 2. EXTRA CLAIM FEES <table border="1"> <thead> <tr> <th>Extra</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total Claims 36 - 20** = 16</td> <td>X 9 = 144.00</td> <td></td> </tr> <tr> <td>Indep. Claims 7 - 3** = 4</td> <td>X 42 = 168.00</td> <td></td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> </tr> <tr> <td colspan="2">SUBTOTAL (2) (\$)</td> <td>312.00</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>		Large	Entity	Small	Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee paid	105	130	205	65					Surcharge - late filing fee or oath	65.00	127	50	227	25					Surcharge - late provisional filing fee or cover sheet		139	130	139	130					Non-English specification		147	2,520	147	2,520					For filing a request for ex parte reexamination		112	920*	112	920*					Requesting publication of SIR prior to Examiner action		113	1,840*	113	1,840*					Requesting publication of SIR after Examiner action		115	110	215	55					Extension for reply within first month		116	400	216	200					Extension for reply within second month		117	920	217	460					Extension for reply within third month		118	1,440	218	720					Extension for reply within fourth month		128	1,960	228	980					Extension for reply within fifth month		119	320	219	160					Notice of Appeal		120	320	220	160					Filing a brief in support of an appeal		121	280	221	140					Request for oral hearing		138	1,510	138	1,510					Petition to institute a public use proceeding		140	110	240	55					Petition to revive - unavoidable		141	1,280	241	640					Petition to revive - unintentional		142	1,280	242	640					Utility issue fee (or reissue)		143	460	243	230					Design issue fee		144	620	244	310					Plant issue fee		122	130	122	130					Petitions to the Commissioner		123	130	123	130					Petitions related to provisional applications		126	180	126	180					Submission of Information Disclosure Stmt		581	40	481	40					Recording each patent assignment per property (times number of properties)		146	740	246	370					Filing a submission after final rejection (37 CFR 1.129(a))		149	740	249	370					For each additional invention to be examined (37 CFR 1.129(b))		179	740	279	370					Request for Continued Examination (RCE)		169	900	169	900					Request for expedited examination of a design application				Other fee (specify):										Other fee (specify):										*Reduced by Basic Filing Fee Paid								1. BASIC FILING FEE <table border="1"> <thead> <tr> <th>Large</th> <th>Entity</th> <th>Small</th> <th>Entity</th> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>101</td> <td>740</td> <td>201</td> <td>370</td> <td></td> <td></td> <td></td> <td></td> <td>Utility filing fee</td> <td>370.00</td> </tr> <tr> <td>106</td> <td>330</td> <td>206</td> <td>165</td> <td></td> <td></td> <td></td> <td></td> <td>Design filing fee</td> <td></td> </tr> <tr> <td>107</td> <td>510</td> <td>207</td> <td>255</td> <td></td> <td></td> <td></td> <td></td> <td>Plant filing fee</td> <td></td> </tr> <tr> <td>108</td> <td>740</td> <td>208</td> <td>370</td> <td></td> <td></td> <td></td> <td></td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>114</td> <td>180</td> <td>214</td> <td>80</td> <td></td> <td></td> <td></td> <td></td> <td>Provisional filing fee</td> <td></td> </tr> <tr> <td colspan="9">SUBTOTAL (1) (\$)</td> <td>370.00</td> </tr> </tbody> </table>		Large	Entity	Small	Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	101	740	201	370					Utility filing fee	370.00	106	330	206	165					Design filing fee		107	510	207	255					Plant filing fee		108	740	208	370					Reissue filing fee		114	180	214	80					Provisional filing fee		SUBTOTAL (1) (\$)									370.00	2. EXTRA CLAIM FEES <table border="1"> <thead> <tr> <th>Extra</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total Claims 36 - 20** = 16</td> <td>X 9 = 144.00</td> <td></td> </tr> <tr> <td>Indep. Claims 7 - 3** = 4</td> <td>X 42 = 168.00</td> <td></td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> </tr> <tr> <td colspan="2">SUBTOTAL (2) (\$)</td> <td>312.00</td> </tr> </tbody> </table>		Extra	Fee from below	Fee Paid	Total Claims 36 - 20** = 16	X 9 = 144.00		Indep. Claims 7 - 3** = 4	X 42 = 168.00		Multiple Dependent			SUBTOTAL (2) (\$)		312.00
Deposit Account Number	19-0036																																																																																																																																																																																																																																																																																																																																																																																																																															
Deposit Account Name	Sterne, Kessler, Goldstein & Fox P.L.L.C.																																																																																																																																																																																																																																																																																																																																																																																																																															
Large	Entity	Small	Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee paid																																																																																																																																																																																																																																																																																																																																																																																																																							
105	130	205	65					Surcharge - late filing fee or oath	65.00																																																																																																																																																																																																																																																																																																																																																																																																																							
127	50	227	25					Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																																																																																																																																																																																																																																																								
139	130	139	130					Non-English specification																																																																																																																																																																																																																																																																																																																																																																																																																								
147	2,520	147	2,520					For filing a request for ex parte reexamination																																																																																																																																																																																																																																																																																																																																																																																																																								
112	920*	112	920*					Requesting publication of SIR prior to Examiner action																																																																																																																																																																																																																																																																																																																																																																																																																								
113	1,840*	113	1,840*					Requesting publication of SIR after Examiner action																																																																																																																																																																																																																																																																																																																																																																																																																								
115	110	215	55					Extension for reply within first month																																																																																																																																																																																																																																																																																																																																																																																																																								
116	400	216	200					Extension for reply within second month																																																																																																																																																																																																																																																																																																																																																																																																																								
117	920	217	460					Extension for reply within third month																																																																																																																																																																																																																																																																																																																																																																																																																								
118	1,440	218	720					Extension for reply within fourth month																																																																																																																																																																																																																																																																																																																																																																																																																								
128	1,960	228	980					Extension for reply within fifth month																																																																																																																																																																																																																																																																																																																																																																																																																								
119	320	219	160					Notice of Appeal																																																																																																																																																																																																																																																																																																																																																																																																																								
120	320	220	160					Filing a brief in support of an appeal																																																																																																																																																																																																																																																																																																																																																																																																																								
121	280	221	140					Request for oral hearing																																																																																																																																																																																																																																																																																																																																																																																																																								
138	1,510	138	1,510					Petition to institute a public use proceeding																																																																																																																																																																																																																																																																																																																																																																																																																								
140	110	240	55					Petition to revive - unavoidable																																																																																																																																																																																																																																																																																																																																																																																																																								
141	1,280	241	640					Petition to revive - unintentional																																																																																																																																																																																																																																																																																																																																																																																																																								
142	1,280	242	640					Utility issue fee (or reissue)																																																																																																																																																																																																																																																																																																																																																																																																																								
143	460	243	230					Design issue fee																																																																																																																																																																																																																																																																																																																																																																																																																								
144	620	244	310					Plant issue fee																																																																																																																																																																																																																																																																																																																																																																																																																								
122	130	122	130					Petitions to the Commissioner																																																																																																																																																																																																																																																																																																																																																																																																																								
123	130	123	130					Petitions related to provisional applications																																																																																																																																																																																																																																																																																																																																																																																																																								
126	180	126	180					Submission of Information Disclosure Stmt																																																																																																																																																																																																																																																																																																																																																																																																																								
581	40	481	40					Recording each patent assignment per property (times number of properties)																																																																																																																																																																																																																																																																																																																																																																																																																								
146	740	246	370					Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																																																																																																																																																																																																																																																																								
149	740	249	370					For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																																																																																																																																																																																																																																																								
179	740	279	370					Request for Continued Examination (RCE)																																																																																																																																																																																																																																																																																																																																																																																																																								
169	900	169	900					Request for expedited examination of a design application																																																																																																																																																																																																																																																																																																																																																																																																																								
		Other fee (specify):																																																																																																																																																																																																																																																																																																																																																																																																																														
		Other fee (specify):																																																																																																																																																																																																																																																																																																																																																																																																																														
		*Reduced by Basic Filing Fee Paid																																																																																																																																																																																																																																																																																																																																																																																																																														
1. BASIC FILING FEE <table border="1"> <thead> <tr> <th>Large</th> <th>Entity</th> <th>Small</th> <th>Entity</th> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>101</td> <td>740</td> <td>201</td> <td>370</td> <td></td> <td></td> <td></td> <td></td> <td>Utility filing fee</td> <td>370.00</td> </tr> <tr> <td>106</td> <td>330</td> <td>206</td> <td>165</td> <td></td> <td></td> <td></td> <td></td> <td>Design filing fee</td> <td></td> </tr> <tr> <td>107</td> <td>510</td> <td>207</td> <td>255</td> <td></td> <td></td> <td></td> <td></td> <td>Plant filing fee</td> <td></td> </tr> <tr> <td>108</td> <td>740</td> <td>208</td> <td>370</td> <td></td> <td></td> <td></td> <td></td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>114</td> <td>180</td> <td>214</td> <td>80</td> <td></td> <td></td> <td></td> <td></td> <td>Provisional filing fee</td> <td></td> </tr> <tr> <td colspan="9">SUBTOTAL (1) (\$)</td> <td>370.00</td> </tr> </tbody> </table>		Large	Entity	Small	Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	101	740	201	370					Utility filing fee	370.00	106	330	206	165					Design filing fee		107	510	207	255					Plant filing fee		108	740	208	370					Reissue filing fee		114	180	214	80					Provisional filing fee		SUBTOTAL (1) (\$)									370.00	2. EXTRA CLAIM FEES <table border="1"> <thead> <tr> <th>Extra</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total Claims 36 - 20** = 16</td> <td>X 9 = 144.00</td> <td></td> </tr> <tr> <td>Indep. Claims 7 - 3** = 4</td> <td>X 42 = 168.00</td> <td></td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> </tr> <tr> <td colspan="2">SUBTOTAL (2) (\$)</td> <td>312.00</td> </tr> </tbody> </table>		Extra	Fee from below	Fee Paid	Total Claims 36 - 20** = 16	X 9 = 144.00		Indep. Claims 7 - 3** = 4	X 42 = 168.00		Multiple Dependent			SUBTOTAL (2) (\$)		312.00																																																																																																																																																																																																																																																																																																																																								
Large	Entity	Small	Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																																																																																																																																																																																																																																							
101	740	201	370					Utility filing fee	370.00																																																																																																																																																																																																																																																																																																																																																																																																																							
106	330	206	165					Design filing fee																																																																																																																																																																																																																																																																																																																																																																																																																								
107	510	207	255					Plant filing fee																																																																																																																																																																																																																																																																																																																																																																																																																								
108	740	208	370					Reissue filing fee																																																																																																																																																																																																																																																																																																																																																																																																																								
114	180	214	80					Provisional filing fee																																																																																																																																																																																																																																																																																																																																																																																																																								
SUBTOTAL (1) (\$)									370.00																																																																																																																																																																																																																																																																																																																																																																																																																							
Extra	Fee from below	Fee Paid																																																																																																																																																																																																																																																																																																																																																																																																																														
Total Claims 36 - 20** = 16	X 9 = 144.00																																																																																																																																																																																																																																																																																																																																																																																																																															
Indep. Claims 7 - 3** = 4	X 42 = 168.00																																																																																																																																																																																																																																																																																																																																																																																																																															
Multiple Dependent																																																																																																																																																																																																																																																																																																																																																																																																																																
SUBTOTAL (2) (\$)		312.00																																																																																																																																																																																																																																																																																																																																																																																																																														

SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Donald J. Featherstone	Registration No.	33,876
Signature		Telephone	202-371-2600
		Date	10/9/01

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.